

Wichita County

Estimated Economic Contribution of Agriculture, Food, and Food Processing Sectors 6/28/2019

Using the most recent IMPLAN data available (2017) adjusted for 2019, 12 agriculture, food, and food processing sectors were analyzed to determine their overall contribution to the Wichita County economy.¹

These 12 sectors have a total direct output of approximately **\$384.1 million** and support **483 jobs** in Wichita County. Running the model for all 12 sectors simultaneously produces the following results:

Agriculture, Food, and Food Processing Sector Contribution to Overall Wichita County Economy					
Contribution Type ²	Employment	% Employment	Total Value Added ³	Total Value Added % of Gross Regional Product ⁴	Output ⁵
Direct Effect	483.1	33.41%	\$89,208,597	55.99%	\$384,130,180
Indirect Effect	136.5	9.44%	\$14,388,567	9.03%	\$25,997,267
Induced Effect	82.2	5.69%	\$5,882,742	3.69%	\$10,944,276
Total Effect	701.8	48.54%	\$109,479,906	68.72%	\$421,071,723

As shown in the above table, agriculture, food, and food processing sectors support **702 jobs**, or **48.54%** of the entire workforce in the county.

Another metric used to calculate the importance of sectors in an economy is their value added as a percentage of GRP. Total value added by the 12 agriculture, food, and food processing sectors is approximately **\$109.5 million**, or **68.72% of the GRP**.

The following tables document the top industries affected by employment and output, as well as a listing of all industries that were analyzed.

¹ Article on building a contribution analysis in IMPLAN that avoids double counting:

http://www.implan.com/index.php?option=com_content&view=article&id=660%3A660&catid=253%3AKB33&Itemid=70

² Direct, indirect, and induced effects sum together to estimate the total economic contribution in the state. **Direct effects** capture the contribution from agricultural and food products. **Indirect effects** capture the economic benefit from farms and agricultural businesses purchasing inputs from supporting industries within the state. **Induced effects** capture the benefits created when employees of farms, agricultural businesses, and the supporting industries spend their wages on goods and services within the state.

³ Value added = labor income + indirect business taxes + other property type income.

⁴ GRP = final demand of households + governments expenditures + capital + exports - imports - institutional sales.

⁵ Output = intermediate inputs + value added.

In the top ten agriculture, food, and food processing sectors by employment, the beef cattle ranching and farming, including feedlots and dual-purpose ranching and farming sector is the top employer with **336 employees**. This table also shows the amount of jobs that are created by the agriculture industry in Wichita County.

Top Ten Agriculture, Food, and Food Processing Sectors by Employment		
Sector	Total Employment	Total Output
Beef cattle ranching and farming, including feedlots and dual-purpose ranching and farming	336.0	\$271,746,619
Support activities for agriculture and forestry	65.6	\$1,990,107
Wholesale trade	49.0	\$9,739,322
Grain farming	31.1	\$65,336,578
Flour milling	28.9	\$33,587,067
Truck transportation	18.1	\$4,344,153
Accounting, tax preparation, bookkeeping, and payroll services	12.6	\$366,640
Animal production, except cattle and poultry and eggs	9.2	\$4,697,193
Real estate	8.4	\$1,762,252
Individual and family services	8.0	\$163,842

The beef cattle ranching and farming, including feedlots and dual-purpose ranching and farming sector directly contributes approximately **\$271.7 million** to the Wichita County economy. The table below also shows the amount of revenue that is generated in other industries by having a strong agriculture industry.

Top Ten Agriculture, Food, and Food Processing Sectors by Output		
Sector	Total Employment	Total Output
Beef cattle ranching and farming, including feedlots and dual-purpose ranching and farming	336.0	\$271,746,619
Grain farming	31.1	\$65,336,578
Flour milling	28.9	\$33,587,067
Wholesale trade	49.0	\$9,739,322
Animal production, except cattle and poultry and eggs	9.2	\$4,697,193
Truck transportation	18.1	\$4,344,153
Owner-occupied dwellings	0.0	\$3,892,296
Animal, except poultry, slaughtering	6.0	\$3,864,707
Electric power transmission and distribution	2.0	\$2,517,452
Support activities for agriculture and forestry	65.6	\$1,990,107

Below is a summary of all agriculture data with employment levels and output level. These values can tell how many jobs are represented by each agriculture, food, and food processing sector and the output they contributed to the Wichita County economy.

All Agriculture, Food, and Food Processing Sectors		
Sector	Total Employment	Total Output
Oilseed farming	0.2	\$961,900.65
Grain farming	31.1	\$65,336,578.37
All other crop farming	1.7	\$721,789.00
Beef cattle ranching and farming, including feedlots and dual-purpose ranching and farming	336.0	\$271,746,612.55
Poultry and egg production	0.2	\$427,866.88
Animal production, except cattle and poultry and eggs	9.2	\$4,697,192.67
Support activities for agriculture and forestry	65.6	\$1,990,106.58
Flour milling	28.9	\$33,587,066.65
Animal, except poultry, slaughtering	6.0	\$3,864,707.47
Bread and bakery product, except frozen, manufacturing	0.7	\$73,417.60
Farm machinery and equipment manufacturing	1.5	\$580,506.62
Landscape and horticultural services	2.2	\$142,428.95

All 105 counties in Kansas have an IMPLAN model and an agriculture, food, and food processing contribution summary. These values do not factor in the retail environment of food sales. Food retail is important, but in order to provide the most accurate picture of what production agricultural and processing contributes to Wichita County, the retail sector was omitted.